

PET Beverage Packaging Barrier Technologies

***New Technologies, New Cost-Performance Economics,
& New Global End-market Opportunities***

The “value-add” of this study is found in its commercial barrier technology and material supplier profiles. The study also includes cost details for each of the major commercial barrier technologies—information developed from cost modeling of the technologies and their impact on container manufacturing costs.

This Study Fully Develops Multiple Barrier Technology Options and Scenarios and Answers Critical Market, End-use, & Cost-performance Questions

- Gain insights on the most recent barrier technologies and which the author believes ultimately afford the most effective barrier at the best price
- Understand the variety of to-market barrier technology paths being pursued by brand-owners — and which offer optimum performance and economics across such end-use applications as beer, juice, teas, carbonated drinks, waters and sparkling waters, and wine
- Gain new perspectives on the impact of current and future cost economics and performance on large-scale conversions away from metal cans and glass bottles in North America through 2012
- Understand how barrier R&D is being brought to bear on such considerations as UV light, oxygen content, closure effectiveness, flavor scalping, and beverage chemistry instability
- Discover low-cost solutions that can extend PET container oxygen barrier from a few weeks to more than six months
- Learn how barrier PET beverage container technologies and the high-value recycled material stream are working to solve prior impasses

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This critically timed study, and its multi-tactic approach to addressing PET beverage packaging's barrier challenges and the continuously improving economics of container manufacturing, provides in-depth analyses of performance characteristics and situational recommendations for barrier technologies across a wide variety of beverage applications.

It provides perspective on the full range of PET beverage container barrier technologies. It enables the reader — whether a resin supplier, preform maker, bottle converter, or a brand-owner/filler, to carefully compare, on a technology-to-technology and situation-to-situation basis to evaluate performance indicators that will enable the reader to identify and make sound performance-to-manufacturing cost decisions.

Highlights of this study include:

Critical analysis of barrier options, challenges, and opportunities for

- Thick-wall containers
- Multilayer preforms
- Barrier additives
- Surface coatings
- Combination treatments
- Modified PET resins

PET Beverage Packaging Barrier Technologies includes a full complement of more than 130 fully illustrated Figures, Charts, & Tables, including beverage packaging types and market share and growth trends forecasts like those illustrated here!

Flowchart of Manufacturing Cost Model Calculation Method



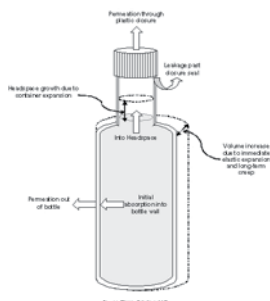
Beer Bottle Manufacturing Cost Estimate

Table 1
Beer Bottle Manufacturing Cost Estimate*

Building Construction	\$25 million
Manufacturing Equipment	\$94 million
Operating Expenses	\$46.1 million
Annual Cost	\$55.5 million
Cost / Thousand Bottles	\$59.50

Source: PlasticsBusiness.com

Mechanisms of Beverage Carbination Loss



Global Beverage Package Market Share Trend

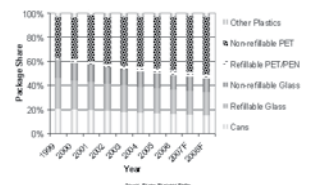


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About the Author

Robert Tremblay is the president of Plastex Solutions, LLC. He is a degreed mechanical engineer who has spent his entire career in the plastic container field, providing his unique experience and perspective on the evolution of growth of the plastic packaging technology and manufacturing systems.



Tremblay is the former president of Western Container Corp. and the former vice president of operations at Constar. At both companies, he provided the strategic vision for the rapidly growing PET container industry, including initiatives at Coca-Cola franchise bottlers in the Southern and Western United States. He was also a key contributor to the PET Soft Drink Container Development and Commercialization Team for Continental Can Co. in the mid 1970s.

In the development of this originally researched body of work, Tremblay brings more than 30 years of plastic package manufacturing, technology development, and strategic implementation to bear.

Over 130 Tables and Figures



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